CFETP 1A9X1 Parts I-II 31 December 2012

# AFSC 1A9X1 SPECIAL MISSIONS AVIATION



# CAREER FIELD EDUCATION AND TRAINING PLAN (CFETP)

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# CAREER FIELD EDUCATION AND TRAINING PLAN

## SPECIAL MISSIONS AVIATION

## AFSC 1A9X1

### **PART I**

## **Preface**

- 1. This Career Field Education and Training Plan (CFETP) is a comprehensive education and training document that identifies life-cycle education/training requirements, training support resources and minimum core task requirements for this specialty. The CFETP will provide personnel a clear career path to success and instill rigor in all aspects of career field training.
- 2. The CFETP consists of two parts; both of which are used by management to plan, manage, and control training within the career field.
  - 2.1. Part I provides information necessary for overall management of the specialty. Section A explains how everyone will use the plan; Section B identifies career progression information, duties and responsibilities, training strategies, and career field path; Section C associates each level with specialty qualifications (knowledge, education, training, and other); Section D indicates resource constraints. Some examples are funds, manpower, equipment, and facilities. *Note*: The *Air Force Enlisted Classification Directory* (AFECD) and AFI 36-2101 *Classifying Military Personnel (Officer and Enlisted)* contain the specialty descriptions.
  - 2.2. Part II includes the following: Section A identifies the Specialty Training Standard (STS) and includes duties, tasks, technical references to support training, Air Education and Training Command (AETC) conducted training, and correspondence course requirements. Section B contains the course objective list and training standards supervisors will use to determine if Airmen satisfy training requirements. Section C identifies available training support materials. Section D identifies a training course index that is used to determine resources available to support training. Included here are both mandatory and optional courses. Sections E and F identify MAJCOM unique training requirements.
  - 2.3. Attachment 3 to the electronic version of the CFETP is a career path chart. This chart provides a visual depiction of the Special Missions Aviation AFSC, Career Enlisted Flyers Incentive Pay gates and years of aviation service, and key information to education, training and qualification. It also contains promotion information specific to the Special Missions Aviation AFSC, such as average time in grade, time in service, as well as Air Force averages. This chart provides a timeline for achieving additional qualifications such as instructor, evaluator, FTU assignment, and leadership opportunities within the squadron, Group, Wing and MAJCOM and HQ/USAF.
- **3.** This CFETP is designed to ensure individuals in AFSC 1A9XX receive comprehensive and effective training at the appropriate phases of their career. At unit level, supervisors and trainers use Part II to identify, plan, and conduct training commensurate with the overall goals of this plan.

## ABBREVIATIONS/TERMS EXPLAINED

**Air Force Career Field Manager (AFCFM).** Representative appointed by the respective HQ USAF Deputy Chief of Staff or Under Secretariat, to ensure assigned AF specialties are trained and utilized to support AF mission requirements.

**Aircrew Fundamentals Course (AFC).** A course designed to prepare enlisted personnel for their transition to a career in aviation. Knowledge presented in the course includes physiological, survival, aircrew mission, antihijacking and anti-terrorism, aircrew coordination, aircrew training, basic aerodynamics, aircraft publications, safety, and flight medicine. This course screens for the ability to handle the rigor of aircrew duties prior to candidates entering expensive follow-on training resources.

**Advanced Training (AT).** Formal course which provides individuals who are qualified in one or more positions of their Air Force Specialty (AFS) with additional skills/knowledge to enhance their expertise in the career field. Training is for selected career airmen at the advanced level of the AFS.

**Aircrew Training System (ATS).** A system wherein a civilian contractor provides academic, simulator, and other designated aircrew training. ATS courses are listed in the applicable AFI 11-2MDS-Specific, Volume 1 or the Education and Training Course Announcement.

**Basic Aircraft Qualification (BAQ).** An aircrew member who has satisfactorily completed training prescribed to maintain the skills necessary to perform aircrew duties in the unit aircraft.

**Basic Mission Capable (BMC).** An aircrew member who has satisfactorily completed mission qualification training, is qualified in some aspect of the unit mission, but does not maintain MR/CMR status.

**Career Development Course (CDC).** A self-paced correspondence course designed to upgrade to a skill level and provide the information necessary to satisfy the career knowledge component of OJT. They contain information on basic principles, techniques, and procedures common to an AFSC.

Career Enlisted Aviator (CEA). An aircrew member in any of the 1AXXX and 1UXXX career fields.

**Career Enlisted Aviator Center of Excellence (CEA CoE).** The USAF CEA Undergraduate Training Center located at Lackland AFB, TX. Provides undergraduate, initial skills training through award of the 3-skill level.

Career Field Education and Training Plan (CFETP). A CFETP is a comprehensive, core training document that identifies: life cycle education and training requirements; training support resources, and minimum core task requirements for a specialty. The CFETP aims to give personnel a clear path and instill a sense of industry in career field training.

**Combat Mission Ready (CMR).** An aircrew member who has satisfactorily completed mission qualification training and maintains qualification and proficiency in the command or unit combat mission.

**Continuation Training (CT).** The continuation training program provides crew members with the volume, frequency, and mix of training necessary to maintain proficiency in that assigned qualification level.

**Course Objective List (COL).** A publication, derived from the initial and advanced skills CTS, identifying the tasks and knowledge requirements, and respective standards provided to achieve a 3- or 7-skill level in this career field. Supervisors use the COL to assist in conducting graduate evaluations.

**Course Training Standard (CTS).** A training standard identifying the training members will receive in a specific course.

**Crew Resource Management (CRM).** The effective use of all available resources—people, weapon systems, facilities, and equipment, as well as the effective use of the environment—by individuals or crews to safely and efficiently accomplish an assigned mission or task. The term "CRM" will be used to refer to the training program, objectives, and key skills directed to this end.

**Enlisted Specialty Training (EST).** A mix of formal training (technical school) and informal training (on-the-job) to qualify and upgrade airmen in each specialty skill level.

**Exportable Training.** Additional training via computer, paper, interactive video, or other necessary means to supplement training.

**Initial Qualification Training (IQT).** Training needed to qualify aircrew for basic aircrew duties in an assigned crew position for a specific aircraft, without regard for the unit's operational mission.

**Initial Skills Training.** Training needed to qualify aircrew for basic aircrew duties in an assigned crew position for a specific aircraft, without regard for the unit's operational mission.

**Instructional System Development (ISD).** A deliberate and orderly, but flexible process for planning, developing, validating, implementing, and reviewing instructional programs. It ensures personnel are taught, in a cost efficient way, the knowledge and skills for successful job performance.

**Lead Command.** A MAJCOM responsible for an assigned weapons system. Lead Commands establish advocacy for designated weapon systems during their life cycle and clarify responsibilities for all using and supporting organizations. They provide primary input into the process of developing and maintaining a force structure with a balance of complementary capabilities.

**MAJCOM Functional Manager (MFM).** Primary focal point and liaison between the MAJCOM and HQ USAF on all matters relating to the aircrew career fields and aviation resource management within the command. This includes, but is not limited to, responsibility for the aircrew training programs, coordination on aircrew resource allocations, and managing education, training, and resources for a specific career field(s) for that MAJCOM.

**Mission Capable (MC).** Status of an aircrew member who has satisfactorily completed mission qualification training but who does not maintain mission ready status.

Mission Design Series (MDS). A term used to identify a specific aircraft designation (e.g. C-5, C-130, C-17).

**Mission Ready (MR).** An aircrew member who has satisfactorily completed mission qualification training and maintains qualification and proficiency in the command or unit operational mission.

**Mission Qualification Training (MQT).** Training needed to qualify a crewmember in an assigned crew position for a specific aircraft to perform the command or unit mission.

**Non-Standard Aircraft Systems (NSAV).** Specially designed aircraft (C-145 and C-146) with unique capabilities to support Special Operations Command non-standard aviation missions.

**On-the-Job Training (OJT).** A delivery method used to certify personnel in both upgrade (skill level award) and job qualification (duty position certification) training. It is hands-on, over-the-shoulder training conducted at the duty location.

**Practicum.** A means of receiving college credits through Community College of the Air Force (CCAF) Teaching Technology Associates Degree Program for formal schoolhouse instructors. It covers a wide variety of subjects beyond initial instructor qualification.

**Qualification Training (QT).** Actual hands-on task performance training designed to qualify an aircrew member in a specific duty position. This training program occurs both during and after the upgrade training process. It is designed to provide the performance skill/knowledge training required to do a job.

**Resource Constraints.** Resource deficiencies, such as money, facilities, time, manpower, and equipment that preclude desired training from being accomplished.

**Retraining.** An Air Force objective to balance the career force of each AFSC as needed. The retraining program allows individual Airmen a choice of career fields from which to pursue an Air Force career and provides a method to return Airmen disqualified from their current AFSC to a productive status.

**Specialty Training Standard (STS).** An Air Force publication that describes an AFS in terms of tasks and knowledge an Airman in that specialty may be expected to perform or know on the job. Also identifies the training provided to achieve a 3-, 5-, or 7-skill level within an enlisted AFS. It further serves as a contract between AETC and the functional user to show which of the overall training requirements for an AFSC are taught in formal schools and correspondence courses.

**Standard.** An exact value, a physical entity, or abstract concept, that the appropriate authority, custom, or common consent sets up and defines to serve as a reference, model, or rule in measuring quantities or qualities, developing practices or procedures, or evaluating results. A fixed quantity or quality.

**Total Force.** All collective Air Force components (active, reserve, guard, and civilian elements) of the United States Air Force.

Upgrade Training (UGT). Mandatory training that leads to attainment of higher level of proficiency.

**Utilization and Training Workshop** (U&TW). A forum consisting of the AFCFM, MAJCOM functional managers (MFM), Subject Matter Experts (SME), and AETC training personnel who determine career field training requirements.

**Weapons System Training Package (WSTP).** An instructional course which includes IQT, MQT, and CT designed for use at the unit to qualify or aid qualification in a duty position, program, or on a piece of equipment. The WSTP may be printed, computer based, flying, simulator, or other audiovisual material.

### **Section A - General Information**

### 1. Purpose.

This CFETP provides information necessary for the Air Force Career Field Manager (AFCFM), MAJCOM functional managers (MFMs), commanders, training managers, supervisors, and trainers to plan, develop, manage, and conduct an effective and efficient career field training program. The plan outlines the training that individuals must receive in order to develop and progress throughout their career. For the purpose of this plan, training is divided into four areas: initial skills, upgrade training (UGT), qualification training (QT), and continuation training (CT). Initial skills training is the Air Force Specialty specific training an individual receives upon entry into the Air Force or upon retraining into this specialty for award of the 3-skill level. Upgrade training identifies the mandatory courses, task qualification requirements, and correspondence course completion required for award of the 3-, 5-, 7-, and 9- skill levels. Qualification training is actual hands-on task performance training designed to qualify an airman in a specific duty position. This training program occurs both during and after the upgrade training process. It is designed to provide the performance skills/knowledge training required for the job. Continuation training is additional training either in-residence or exportable advanced training courses, or on-the-job training, provided to personnel to increase their skills and knowledge beyond the minimum required. The CFETP has several purposes, some are:

- 1.1. Serves as a management tool to plan, manage, conduct, and evaluate a career field training program.
- 1.2. Identifies task and knowledge training requirements and recommends education and training for each skill level and phase of an individual's career in this AFS.
- 1.3. Lists training courses available in the specialty, identifies sources of training, and the training medium.
- 1.4. Identifies major resource constraints that impact full implementation of the desired career field training program.

#### 2. Uses.

The plan will be used by MFMs and supervisors at all levels to ensure comprehensive and cohesive training programs are available and/or instituted for each individual in the specialty.

- 2.1. AETC training personnel will develop and revise formal resident, non-resident, field and exportable training based on requirements established by the user and documented in Part II of the CFETP. They will also work with the AFCFM to develop acquisition strategies for obtaining resources needed to provide the identified training.
- 2.2. MFMs will ensure their training programs complement the CFETP mandatory initial and upgrade skills requirements. OJT, resident training, contract training, or exportable courses can satisfy identified requirements. MAJCOM-developed training to support this AFSC must be identified for inclusion in this plan and must not duplicate available training resources.
- 2.3. Each individual will complete the mandatory training requirements specified in this plan. The list of courses in Part II will be used as a reference to support training.
- 2.4. Personnel in AFSCs 1AXXX or 1U0X1 are exempt from maintaining OJT Training Folders (AF Form 623). All training is certified via AF Form 8 by trained flight examiners. Certification of the Form 8 eliminates the requirement to document STS items in this CFETP.

## 3. Coordination and Approval.

The AFCFM is the approval authority. MAJCOM functional managers and AETC training managers will identify and coordinate on the career field training requirements. The AFCFM will initiate an annual review of this document and coordinate with AETC and MFMs to ensure currency and accuracy. Using the list of courses in Part II, they will eliminate duplicate training. Send applicable inputs/changes to this CFETP through MAJCOM functional managers to HQ USAF/A3O-AM, 1480 Air Force Pentagon, Washington D.C. 20330-1480 or the following organizational email address: afa3oam.workflow@pentagon.af.mil.

## **Section B - Career Progression and Information**

### 4. Specialty Description

4.1. **Specialty Summary.** Performs aircraft visual inspections and in-flight duties. Operates and monitors engine and aircraft systems controls, panels, indicators and devices. Supervises cargo/passenger loading and offloading activities. Determines cargo placement and restraint requirements and directs and checks the placement of restraint equipment. Computes aircraft weight and balance and performs functions including airdrop of personnel and equipment/cargo. Inspects, operates, and secures armament systems and subsystems. Operates airborne weapons systems by employing combat procedures and tactics. Related DoD Occupational Subgroup: 105000

## 4.2. Duties and Responsibilities.

- 4.2.1. Performs aircraft inspections. Accomplishes pre-flight inspection of the aircraft, guns, defensive systems, cargo/airdrop systems, aerospace ground equipment and related aircraft equipment according to flight manual procedures. Accomplishes load planning of cargo/passenger loads and reviews load plan and cargo documentation. Maintains aircraft forms and records during flight and while aircraft is away from home station. Operates aircraft radio systems, airborne weapons systems and associated equipment. Uses night vision goggles (NVG) to perform scanner duties in relation to particular aircraft type and mission. Operates aircraft systems, auxiliary, and rescue equipment as dictated by mission requirements. Assists and coordinates with other positions to ensure safe employment of weapons, defensive systems, hoist, and related equipment. Maintains munitions account or sub-account and forecasts for ammunition requirements to include flares and all calibers of ammunition. Positions and manages ammunition and weapon systems to ensure maximum economy of force. Performs nonscheduled aircraft maintenance and pre-flight, through-flight, and post-flight inspections of aircraft away from home station. Services aircraft with fuel, oil, and hydraulic fluid, as required.
- 4.2.2. Computes and applies aircraft weight, balance, and performance data manually or electronically. Determines and verifies passenger, cargo, fuel, and emergency and special equipment distribution and weight. Computes takeoff, climb, cruise, and landing data. Determines engine fuel consumption using airspeed, atmospheric data, charts, computer, or electronic calculator. Records actual aircraft performance data. Supervises cargo/passenger loading and off-loading operations. Performs in-flight maintenance of airborne weapons systems and associated equipment. Applies quick and decisive actions to restore malfunctioning systems to operational condition. Conducts thorough airborne analysis/evaluation of weapons, defensive systems and associated equipment. Documents all armament malfunctions and discrepancies. Receives and signs receipts for and stows in-flight meals. Ensures availability of fleet service equipment and passenger comfort items.
- 4.2.3. Operates and monitors engine and aircraft systems controls and indicators. Assists pilot or performs engine starts, and monitors run-up, flight operations, and engine shutdown. Operates engine controls to provide desired efficiency and economy. Regulates aircraft systems such as electric, communication, navigation, hydraulic, pneumatic, fuel, air conditioning and pressurization, ventilation, auxiliary power unit, and lubrication systems. Observes warning indicators and light for fire, overheat, depressurization, and system failure. Reports abnormal conditions to pilot, and recommends corrective action. Applies quick and decisive actions to restore malfunctioning systems to operational condition. Performs duties as gunner, hoist operator, and cargo sling operator. Performs inflight maintenance of airborne weapons systems and associated equipment. Conducts thorough airborne analysis/evaluation of weapons, defensive systems and associated equipment. Ensures availability of fleet service equipment and passenger comfort items. Receives and signs receipts for and stows in-flight meals. Computes and completes aircraft weight and balance documentation either manually or electronically. Adheres to flying, weapon, and explosive safety standards and conducts in-flight and ground training in all facets of aircrew duties, airborne guns, defensive systems, and related equipment. Visually monitors aircraft clearances (interior and exterior), identifies proximal threats to the aircraft and initiates corrective actions (aircraft scanning).
- 4.2.4. Plans and organizes Special Missions Aviation activities. Organizes standardization, qualification, and other requirements of in-flight logs and reports, and records for accuracy, completeness, format, and compliance with current directives. Accomplishes in-flight checks according to flight manual procedures. Establishes standards governing safety, work methods, and procedures. Completes required aircraft forms documentation and border clearance requirements. Directs standardization of Special Missions Aviation performance in conjunction with aircraft performance engineering, engine conditioning, and preventive maintenance programs. Ensures conformance with prescribed aircrew procedures. Provides resources, equipment, directives, and technical information appropriate to the mission and assigned aircraft. Evaluates operational efficiency of aircrews and systems. Analyzes

trends affecting aircrew performance and takes necessary action. Coordinates with other agencies and organizations to conduct special operations enlisted aviation activities.

- 4.2.5. Directs Special Missions Aviation (SMA) activities. Administers qualification flight to personnel engaged in SMA activities within flight test and operations organizations. Directs standardization of SMA performance in conjunction with aircraft performance engineering, engine conditioning, and preventive maintenance programs. Ensures conformance with prescribed aircrew procedures.
- 4.2.6. Inspects and evaluates Special Missions Aviation activities. Evaluates individual and group performance in terms of effectiveness and qualification in using equipment and materials. Interprets and discusses evaluation findings, and recommends action to correct deficiencies.
- 4.2.7. Performs technical Special Missions Aviation functions. Resolves technical problems encountered by operating units. Renders advice and technical assistance to agencies engaged in functions associated with SMA activities. Advises organizational commander or staff agencies on status of SMA activities and adequacy of equipment. Maintains qualification in aircraft.
- 4.2.8. Airdrop qualified only: conducts cargo and personnel airdrops according to directives. Attaches extraction parachutes to cargo and platforms. Inspects cargo and platforms, extraction systems and connects static lines. Checks tie downs, parachutes, containers, suspension systems, and extraction systems to ensure proper cargo extraction or release. Operates aircraft airdrop systems and supervises cargo and paratroopers exiting the aircraft.

## 5. Skill/Career Progression.

Adequate training and timely progression from the apprentice to the superintendent skill level play an extremely important role in the Air Force's ability to accomplish its mission. Therefore, it is essential that everyone involved in training do their part to plan, develop, manage, conduct, and evaluate an effective and efficient training program. The guidance provided in this part of the CFETP will ensure individuals receive viable training at the appropriate points in their career. The following narrative and the AFSC 1A9XX career field flow charts identify the training career path. They define the training required in an individual's career.

- 5.1. **Apprentice** (3) **Level.** Initial skills training in the Special Missions Aviation specialty consist of the task and knowledge training provided in the resident apprentice Special Missions Aviation course listed in the formal schools catalog. Task and knowledge training requirements are identified in STS 1A9X1, which is included in Part II, Section A, of this plan. In order to be awarded AFSC 1A931, an individual must complete the Apprentice Special Missions Aviation Course.
- 5.2. **Journeyman (5) Level.** Non-prior service trainees must meet all requirements prescribed in the applicable MAJCOM aircrew training directives and a minimum of 12 months upgrade training beginning on the first day of Initial Qualification Training (IQT). Completion of IQT is required. Individuals in retraining status are subject to the same training requirements and a minimum of nine months in upgrade training.
- 5.3. **Craftsman** (7) **Level.** To be awarded AFSC 1A971, the trainee must be a SSgt, complete all 3- and 5-skill level training requirements and meet all requirements as listed in the applicable MAJCOM aircrew training directives and have completed 12 months of upgrade training. Individuals in retraining status are subject to the same training requirements and a minimum of six months in upgrade training.
- 5.4. **Superintendent (9) Level.** To be awarded AFSC 1A991, an individual must be a SMSgt and have his or her supervisor's recommendation. Additionally, complete any other requirements specified in the *Air Force Enlisted Classification Directory* (AFECD) and AFI 36-2101, *Classifying Military Personnel (Officer and Enlisted)*.
- 5.5. Chief Enlisted Manager (CEM). CEM code is award when selected for promotion to Chief Master Sergeant.

## 6. Training Decisions.

The CFETP uses a building block approach (simple to complex) to encompass the entire spectrum of training requirements for the Special Missions Aviation specialty. This CFETP was developed to include life-cycle (day one through retirement) training requirements for this specialty. The spectrum includes a strategy for when, where, and how to meet the training requirements. The strategy must be apparent and affordable to reduce duplication of training and eliminate a disjointed approach to training.

- 6.1. **Initial Skills Training**. Initial physiological training will be conducted at the Aircrew Fundamentals Course. Significant changes were made in initial skills training. The STS was changed to include Aircrew Fundamentals Course to align common core training amongst all 1AXXX AFSCs. The initial skills training will be revised to provide training needed to prepare graduates for Airborne Mission Systems related positions.
- 6.2. **Five Level Upgrade Training.** Completion of 12 months of upgrade training starting on the first day of IQT. Individuals in retraining require completion of nine months of upgrade training starting on the first day of IQT. Completion of CDCs is no longer required for 5-skill level upgrade.
- 6.3. **Seven Level Upgrade Training.** No formal training. The CSAF has approved a variance, eliminating the requirement for in-residence 7-level training for all Career Enlisted Aviator personnel.

## 7. Community College of the Air Force (CCAF) Academic Programs.

CCAF provides the opportunity to obtain an Associate in Applied Sciences (AAS) Degree. Enrollment in CCAF occurs upon completion of basic military training. Off-duty education is a personal choice but is highly encouraged. See the CCAF web site for program details regarding the AAS degree at: http://www.au.af.mil/au/ccaf . Additionally, see the Air Force Virtual Education Center website regarding AAS degree progress at: https://my.af.mil/afvecprod/. In addition to its associate degree program, CCAF offers the following:

- 7.1. **Occupational Instructor Certification.** The CCAF offers the Occupational Instructor Certification to instructors teaching full time in a CCAF affiliated school. To qualify, instructors must complete an instructor course, a Teaching Practicum, have two years teaching experience, hold an associate or higher degree, and be recommended by their commander/commandant.
- 7.2. **Instructor of Technology & Military Science Degree.** This program is offered to enlisted members who are assigned to CCAF affiliated schools teaching CCAF degree-applicable courses. Applicants must complete three semester hours of CCAF-approved instructor methodology coursework and hold their career-field related CCAF degree or equivalent civilian college degree before registration.
- 7.3. **Trade Skill Certification**. When a CCAF student separates or retires, a trade skill certification is awarded for the primary occupational specialty. The College uses a competency based assessment process for trade skill certification at one of four proficiency levels: Apprentice, Journeyman, Craftsman/Supervisor, or Master Craftsman/Manager. All are transcribed on the CCAF transcript.
- 7.4. **Degree Requirements.** All Airmen are automatically entered into the CCAF program. The current associate's degree program available from the CCAF for AFSC 1A9XX is the Aviation Operations of Applied Science degree. Prior to completing an associate degree, the 5-skill level must be awarded and the following requirements in Table 1 must be met.

**Table 1 Degree Requirements** 

Subject Area	Semester Hours
Technical Education	24
Leadership, Management, and Military Studies	6
Physical Education	4
General Education	15
Program Elective	15
Totals	64

7.4.1. **Technical Education (24 Semester Hours):** A minimum of 12 semester hours of Technical Core subjects/courses must be applied and the remaining semester hours applied from Technical Core/Technical Elective subjects/courses. Requests to substitute subjects/courses must be approved in advance by the Technical Branch at CCAF. Refer to the CCAF Catalog for a current listing of Technical Core and Elective Subjects/Courses.

**Table 2 Technical Core (12-24 Semester Hours)** 

Subjects/Course	Max Semester Hrs
Aerial Gunner Principles/Procedures	24
Air Transportation Principles	6
Aircraft Loadmaster Principles/Procedures	24
Aviation/Flight Safety	6
CCAF Internship	18
FAA Flight Engineer Certificate	18
Flight Engineer, Fixed Wing	24
Flight Engineer, Helicopter	24
Flight Rules and Regulations	3
Introduction to Aviation/Aeronautics	3
Survival Training	6

**Table 3 Technical Electives (0-12 Semester Hours)** 

Subjects/Course	Max Semester Hrs
Advanced Flight Engineering	12
Aerodynamics	3
Aircraft Systems	6
Aircraft Weight and Balance	3
Aviation Law	6
Climatology/Meteorology	6
Computer Science	6
Electricity/Electronics	6
FAA Airframe and Power plant Certification	6
General Chemistry/Algebra-Based Physics	4
Human Factors in Aviation/Flight Physiology	3
Human Relations	3
Private/Commercial Pilot's License	3

- 7.4.2. **Leadership, Management, and Military Studies (6 Semester Hours):** Professional Military Education and/or civilian management courses. See *CCAF General Catalog* for application of civilian management courses.
- 7.4.3. **Physical Education (4 Semester Hours):** This requirement is satisfied by completion of Basic Military Training. PHE 1000.
- 7.4.4. **General Education (15 Semester Hours):** Applicable courses must meet the criteria for application of courses to the General Education Requirement (GER) and be in agreement with the definitions of applicable General Education subject/courses as provided in the CCAF general catalog.

**Table 4 General Education Requirements** 

Subject/Courses	Semester Hours
Oral Communication (speech)	3
Written Communication (English composition)	3
Mathematics (intermediate algebra or college-level mathematics)	3
Social Science (anthropology, archaeology, economics, geography, government, history, political science, psychology, sociology)	3
Humanities (courses in fine arts (criticism, appreciation, historical significance, foreign language, literature, philosophy, religion)	3

- 7.4.5. **Program Elective (15 Semester Hours):** Satisfied with applicable Technical Education, Leadership, Management, and Military Studies or General Education subjects/courses.
- 7.5. Additional off-duty education is a personal choice that is encouraged for all. Individuals desiring to become an Air Education and Training Command Instructor should be actively pursuing an associate's degree. A degreed faculty is necessary to maintain accreditation through the Southern Association of Colleges and Schools.

**Table 5 1A9X1 Assignment Locations** 

LOGATION	GN FG	GN #G	Mag	TEG C	aaa	CID A	440	4 3 #3 T
LOCATION	CMS	SMS	MSG	TSG	SSG	SRA	A1C	AMN
BARKSDALE	X	X						
CANNON	X	X	X	X	X	X	X	X
CP SMITH		X						
DAVIS-MONTHAN		X	X	X	X	X	X	X
EDWARDS			X	X	X			
FE WARREN			X	X	X	X		
FAIRCHILD				X	X	X		
FT RUCKER			X	X	X			
HURLBURT FIELD	X	X	X	X	X	X	X	X
JB ANDREWS			X	X	X			
JB LANGLEY-EUSTIS	X	X						
JBSA LACKLAND			X		X	X		
JBSA RANDOLPH		X	X					
KADENA			X	X	X	X	X	X
KIRTLAND	X	X	X	X	X	X		
LAKENHEATH			X	X	X	X		
MACDILL	X							
MALMSTROM			X	X	X	X		
MILDENHALL	X	X	X	X	X		X	X
MINOT			X	X	X	X		
MOODY	X	X	X	X	X	X	X	X
NELLIS	X	X	X	X	X	X	X	X
PENTAGON			X					
RAMSTEIN			X					
TYNDALL			X	X	X			
YOKOTA					X	X		

NOTE: Authorizations listed above are subject to change without notice. Airmen should consult their squadron superintendent or MAJCOM functional manager for additional information.

Current as of 20 December 2012

# CFETP 1A9X1 31 December 2012

8. Caree	r Field Flow Charts.	
Figure 1	1A9X1 Training Path 1 of 2	6
Figure 2	1A9X1 Training Path 2 of 2	.7

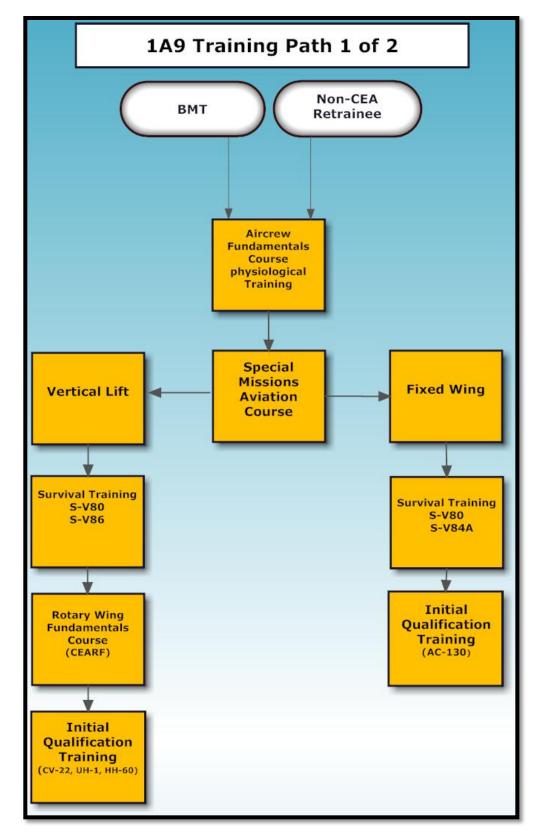


Figure 1 1A9X1 Training Path 1 of 2

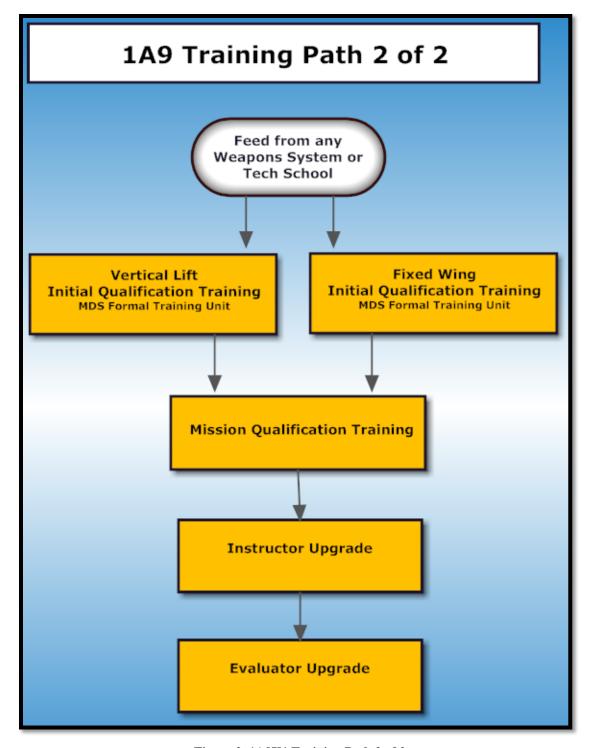


Figure 2 1A9X1 Training Path 2 of 2

Table 6 1A9X1 Enlisted Education and Training Path

Enlisted E	ducation a		_	HIDEMENITS	
	GRADE REQUIREMENTS				
Education and Training Requirements	Rank	Earliest Sew-on	Air Force Average	1A9X1 Average	High Year of Tenure (HYT)
Basic Military Training School (BMTS)					, ,
Apprentice Technical School		6			
(3-Skill Level)	Amn A1C	months 10 months			
Upgrade To Journeyman					
(5-Skill Level)					
- Minimum 12 months on-the-job training	Amn	28	3		8
- Minimum 9 months on-the-job training for	A1C	months		N/A	
retrainees	SrA	monuis	years	IN/A	years
- Recommendation by supervisor with					
commander approval					
Airman Leadership School (ALS)					
- Must be a SrA with 48 months time in service					
or be a SSgt selectee					
(ARC: Must be a SrA with 42 months time in					
service to accomplish ALS by correspondence)					
- Resident graduation is a prerequisite for SSgt					
sew-on (Active Duty Only)		T	1		
Upgrade To Craftsman					
(7-Skill Level)	99	3	4.45	37/4	15
- Minimum rank of SSgt	SSgt	years	years	N/A	years
- 12 months OJT					
- 6 months OJT for retrainees					
Noncommissioned Officer Academy (NCOA)					
- Must be a TSgt or TSgt selectee		5	10.5		20
- Resident graduation is a prerequisite for MSgt sew-on (Active Duty Only)	TSgt			N/A	
- Resident or correspondence graduation is a		years	years		years
prerequisite for MSgt sew-on (ARC Only)					
USAF Senior NCO Academy (SNCOA)					
- Must be a SMSgt-select, or a MSgt to attend					
- Resident graduation is a prerequisite for		8	15.6		24
SMSgt sew-on (Active Duty Only)	MSgt	years		N/A	years
- Resident or correspondence graduation is a		years	years		years
prerequisite for SMSgt sew-on (ARC Only)					
Upgrade to Superintendent		4.1	10.5		
(9-Skill level)	SMSgt	11	19.3	N/A	26
- Minimum rank of SMSgt		years	years		years
Chief Enlisted Manager (CEM)	1				
- Minimum rank of CMSgt	G) 10	14	22.3	37/4	30
- Completed SNCO Academy	CMSgt	years	years	N/A	years
(Active Duty Only)					<i>y</i>
NOTE: AFSC Averages have not yet been estab	olished for t	his career	field.		
Current as of 18 December 2012					

## **Section C - Skill Level Training Requirements**

### 9. Purpose.

Skill level training requirements in this career field are defined in terms of task and knowledge requirements. This section outlines the specialty qualification requirements for each skill level in broad, general terms and establishes the mandatory requirements for entry, award, and retention of each skill level. The specific task and knowledge training requirements are identified in the STS and the Course Objective List at Part II, Section A and B of this CFETP.

## 10. Specialty Qualifications:

- 10.1. Apprentice 3-Level Training:
- 10.1.1. Specialty Qualification.
- 10.1.1.1. **Knowledge.** Knowledge is mandatory of: types, capacities, and configuration of transport aircraft; arithmetic; emergency equipment and in-flight emergency procedures; personal equipment and oxygen use; communications; current flying directives; interpreting diagrams, loading charts, and technical publications; border agency clearance dispensing and preserving food aboard aircraft; and cargo restraint techniques.
- 10.1.1.2. **Education.** For entry into this AFSC, completion of a high school education with courses in mathematics, computer principles, typing, speech, and English is desirable. A minimum score of 55 is required on the General portion of the Airman Qualifying Examination (AQE).
- 10.1.1.3. **Training.** Completion of the Aircrew Fundamentals Course at Lackland AFB TX is mandatory for pipeline and non-aviation service cross training students. Completion of the Special Missions Aviation Apprentice course is mandatory for award of the AFSC 1A931.
- 10.1.1.4. **Other.** The following are mandatory as indicated:
- 10.1.1.4.1. For entry, award, and retention of the AFSC:
- 10.1.1.4.1.1. Physical qualification for aircrew duty according to AFMAN 48-123, Class III Medical Standards.
- 10.1.1.4.1.2. Qualification for aviation service according to AFI 11-402, *Aviation and Parachutist Service, Aeronautical Ratings and Badges*.
- 10.1.1.4.1.3. Normal color vision and depth perception as defined in AFI 48-123, *Medical Examinations and Standards*.
- 10.1.1.4.1.4. Must maintain eligibility to deploy and mobilize worldwide.
- 10.1.1.4.2. Specialty requires routine access to Secret material or similar environment. For award and retention of AFSCs 1A9XX, completion of a current National Agency Check, Local Agency Checks and Credit (NACLC) according to AFI 31-501, *Personnel Security Program Management*.
- 10.1.2. **Training Sources.** Completion of Aircrew Fundamentals Course (if pipeline or non-aviation, prior-service) and the Special Missions Aviation course at CEA Center of Excellence satisfies the knowledge and training requirements specified in the specialty qualification section (above) for award of the 3-skill level.
- 10.1.3. **Implementation**. Entry into training is accomplished by initial accessions from Basic Military Training School (BMTS) or approved retraining from any AFSC. After graduation from 3-level awarding course, initial qualification training (IQT) begins when the individual enters formal flight training. Thereafter, upgrade training is initiated anytime an individual is assigned duties they are not qualified to perform.

#### 10.2. Journeyman 5-Level Training:

- 10.2.1. Specialty Qualification. Qualification in and possession of AFSC 1A931.
- 10.2.1.1. **Knowledge.** Knowledge is mandatory of: electrical, communication, navigation, mechanical, hydraulic, and pneumatic systems applying to aircraft and related systems; flight theory; minor in-flight maintenance; personal equipment and oxygen use; aircraft emergency procedures; using and interpreting diagrams, schematics, aircraft performance charts, loading charts, technical publications and flight manuals; types, capacities, and configuration of transport aircraft; communications; current flying directives; interpreting diagrams, loading charts, and technical

publications; cargo restraint techniques; application of electrical, mechanical, and hydraulic principles applying to airborne weapons and allied equipment, components, and systems; employment and care of ammunition and ammunition systems; principles of weapons employment and ballistic factors; weapon malfunction analysis and repair; and explosives safety.

- 10.2.1.2. **Education.** For entry into this specialty, completion of high school or general educational development equivalency with course(s) in mechanics, mathematics, physics, computer principles, typing, speech, and English is desired.
- 10.2.1.3. **Training.** The following training is mandatory for the award of the 5-skill level:
- 10.2.1.3.1. Complete the resident and informal training for the assigned weapon system.
- 10.2.1.3.2. Training must meet task requirements established in the STS.
- 10.2.1.4. **Experience.** Minimum 12 months on-the-job training (9 months for retrainees).
- 10.2.1.5. **Other**. See paragraph 10.1.1.4.
- 10.2.2. Training Sources and Resources. Refer to Part II, Section D, Training Course Index.
- 10.2.3. **Implementation**. Entry into upgrade training is initiated when an individual possesses the 3-skill level. Qualification training is initiated anytime an individual is assigned duties they are not qualified to perform.

## 10.3 Craftsman 7-Level Training:

- 10.3.1. **Specialty Qualification.** Qualification in and possession of AFSC 1A951.
- 10.3.1.1. **Knowledge.** In addition to the 5-skill level and other qualifications as listed above, an individual must possess the knowledge and skills necessary to supervise personnel.
- 10.3.1.2. **Education.** To assume the grade of SSgt and MSgt, individuals must be graduates of the Airman Leadership School (ALS) and NCO Academy, respectively.
- 10.3.1.3. **Training.** Be at least a Staff Sergeant, 12 months in upgrade training (6 months for retrainees) and recommendation by the supervisor is mandatory for award of the craftsman AFSC. The CSAF has approved a variance eliminating the requirement for in-residence 7-skill level training for all CEA career Fields. However, minimum rank of SSgt and 12 months on-the-job training still apply.
- 10.3.1.4. **Experience.** SSgt with a minimum 12 months on-the-job training (6 months for retrainees).
- 10.3.1.5. **Other**. See paragraph 10.1.1.4.
- 10.3.2. Training Sources and Resources. Refer to Part II, Section D, Training Course Index.
- 10.3.3. **Implementation**. Trainees selected for promotion to SSgt will enter 7-level upgrade training the first day of the promotion cycle, (1 September each year). The only exception is promotion under the Stripes for Exceptional Performers (STEP) program. Additionally, qualification training is initiated anytime an individual is assigned duties they are not qualified to perform.

### 10.4. Superintendent 9- Level Training:

- 10.4.1. Specialty Qualification. Qualification in and possession of AFSC 1A971.
- 10.4.1.1. **Knowledge.** In addition to the 7-skill level qualification, the 9-skill level individual must be an effective leader of personnel and manager of assigned resources.
- 10.4.1.2. **Education.** Completion of in-resident USAF Senior NCO Academy or sister service equivalent. Additionally, SNCOs are expected to achieve award of the Community College of the Air Force (CCAF) Associate of Applied Science degree in this field.
- 10.4.1.3. **Training.** Must hold the rank of Senior Master Sergeant and supervisor's recommendation for award of the 9-skill level (active duty only).
- 10.4.1.4. **Experience.** Qualification in and possession of AFSC 1A971. Also, experience in supervisory position is desired.

- 10.4.1.5. **Other**. See paragraph 10.1.1.4.
- 10.4.2. Training Sources and Resources. Refer to Part II, Section D, Training Course Index.
- 10.4.3. **Implementation**. Initiated when an individual possesses the 7-skill level and holds the grade of SMSgt. Qualification training is initiated anytime an individual is assigned duties they are not qualified to perform.

## **Section D - Resource Constraints**

#### 11. Purpose.

This section identifies known resource constraints that preclude optimal/desired training from being developed or conducted, including information such as cost and manpower. Narrative explanations of each resource constraint and an impact statement describing what effect each constraint has on training are included. Also included in this section are actions required, office of primary responsibility, and target completion dates. Resource constraints will be reviewed and updated at least annually.

## 12. Apprentice Level Training.

None identified.

## 13. Journeyman Level Training.

None identified.

#### 14. Craftsman Level.

None identified.

#### BY ORDER OF THE SECRETARY OF THE AIR FORCE

**OFFICIAL** 

JAMES J. JONES, Maj Gen, USAF Director of Operations DCS, Operations, Plans & Requirements

### **PART II**

## **Section A - Specialty Training Standard (STS)**

#### 1. Implementation.

This STS will be used for technical training provided by AETC for classes beginning January 2013.

## 2. Purpose.

As prescribed in AFI 36-2201 this STS:

- 2.1. Lists in column 1 (Task, Knowledge, and Technical Reference) the most common tasks, knowledge, and technical references (TR) necessary for airmen to perform duties at the 3-, 5-, and 7-skill level AFSC in the Special Missions Aviation ladder of the Aircrew Operation Career Field. These are based on an analysis of the duties in AFECD.
- 2.2. Column 2 (3-Skill Level) shows formal training and correspondence course requirements as described in the Education and Training Course Announcements (ETCA) web site at: <a href="https://etca.randolph.af.mil/">https://etca.randolph.af.mil/</a> and the career knowledge provided by the correspondence course. There are no CDCs listed for this AFSC.
- 2.3. **Qualitative Requirements.** Attachment 1 contains the proficiency code key used to indicate the level of training and knowledge provided by resident training and career development courses.
- 2.4. Becomes a job qualification standard (JQS) for on-the-job training and used according to AFI 36-2201, *Air Force Training Program*. For OJT, the tasks in column 1 are trained and qualified to the go/no go level. Go means the individual can perform the task without assistance and meets local requirements for accuracy, timeliness, and correct use of procedures.
- 2.5. Is a guide for development of promotion tests used in the Weighted Airmen Promotion System (WAPS). Senior NCOs with extensive practical experience in their career fields develop the Specialty Knowledge Tests (SKTs) at the USAF Occupational Measurement Squadron. The tests sample knowledge of STS subject matter areas judged by test development team members to be most appropriate for promotion to higher grades. Individual responsibilities are in AFI 36-2606, *Reenlistment in the United States Air Force*.

#### 3. Recommendations.

Report unsatisfactory performance of individual course graduates to 37 TRG/DOS, 1220 Truemper Street, Suite 1, Lackland AFB TX 78236-5568. Please reference specific STS paragraphs.

- 3 Attachments:
- 1. Qualitative Requirements
- 2. STS: Special Missions Aviation (1A9X1)
- 3. CFETP Career Path: 1A9X1

## **Section B - Course Objective List**

#### 4. Measurement.

Each objective is indicated as follows: **W** indicates task or subject knowledge which is measured using a written test, **PC** indicates required task performance which is measured with a performance progress check, and **PC/W** indicates separate measurement of both knowledge and performance elements using a written test and a performance progress check.

#### 5. Standard.

The standard is 85 percent on written examinations. Standards for performance measurement are indicated in the objective and delineated on the individual progress checklist. Instructor assistance is provided as needed during the progress check, and students may be required to repeat all or part of the behavior until satisfactory performance is attained.

### 6. Proficiency Level.

Most task performance is taught to the "2b" proficiency level which means the students can do most parts of the task, but does need assistance on the hardest parts of the task (partially proficient). The student can also determine step-by-step procedures for doing the task.

#### 7. Advanced Skills Course.

NOTE: There is currently no advanced course. This area is reserved.

## **Section C - Support Material**

## 8. Support Materials.

NOTE: There are currently no support material requirements. This area is reserved.

## **Section D - Training Course Index**

#### 9. Purpose.

This section of the CFETP identifies training courses available for the specialty and shows how the courses are used by each MAJCOM in their career field training programs.

#### Table 7 Air Force In-Residence Course

COURSE NUMBER	COURSE TITLE	LOCATION		
L3ATR1AXXX01AC	Aircrew Fundamentals	Lackland AFB, TX		
L2ABR1A931 048A Special Missions Aviation Lackland AFB, TX				
Note: Please check Education & Training Course Announcements for most updated Course Number and				
information <a href="https://etca.randolph.af.mil/default1.asp">https://etca.randolph.af.mil/default1.asp</a>				
Current as of 14 November 2012				

### Table 8 Air Force Institute for Advanced Distributed Learning (AFIADL) Courses.

COURSE NUMBER	COURSE TITLE	COURSE LOCATION
RESERVED	RESERVED	RESERVED

# **Table 9 Advanced Training**

COURSE NUMBER	COURSE TITLE	COURSE LOCATION
RESERVED	RESERVED	RESERVED

## **Table 10 Other Courses in the Field**

COURSE NUMBER	COURSE TITLE	COURSE LOCATION
AMC AAMOC	Advanced Air Mobility Operations Course	JB MDL, NJ

# Table 11 Air Mobility Command Advanced Distributed Learning Service (ADLS) Courses

COURSE NUMBER	COURSE TITLE	WEBSITE
WBT AMOC	Introduction to Air Mobility Operations Course	https://amc.csd.disa.mil/
FEMO	Fundamentals of Expeditionary Mobility Operations	https://amc.csd.disa.mil
STAGE	Stage Management Course	https://amc.csd.disa.mil

# **Section E - MAJCOM Unique Requirements**

NOTE: There are currently no MAJCOM unique requirements. This area is reserved.

# **Section F - MAJCOM Unique Resource Requirements**

NOTE: There are currently no MAJCOM unique resource requirements. This area is reserved.

THIS BLOCK FOR IDENTIFICATION PURPOS	SES ONLY		
NAME OF TRAINEE			
PRINTED NAME (Last, First Middle Initial)		INITIALS (Written)	SSAN
PRINTED NAME OF CERTIFYING OFFICIAL AND V	VRITTEN I	NITIALS	
N/I	N/I		
N/I			

# QUALITATIVE REQUIREMENTS

·		PROFICIENCY CODE KEY			
	SCALE VALUE	DEFINITION: The Individual			
	Can do simple parts of the task. Needs to be told or shown how to do most of the task. (EXTREME)				
TASK PERFORMANC E	2	Can do most parts of the task. Needs help only on hardest parts. (PARTIALLY PROFICIENT)			
LEVELS	3	Can do all parts of the task. Needs only a spot check of completed work. (COMPETENT)			
	4	Can do the complete task quickly and accurately. Can tell or show others how to do the task. (HIGHLY PROFICIENT)			
	a	Can name parts, tools, and simple facts about the task. (NOMENCLATURE)			
**TASK KNOWLEDGE	b	Can determine step by step procedures for doing the task. (PROCEDURES)			
LEVELS	с	Can identify why and when the task must be done and why each step is needed. (OPERATING PRINCIPLES)			
	d	Can predict, isolate, and resolve problems about the task. (ADVANCED THEORY)			
	A	Can identify basic facts and terms about the subject. (FACTS)			
***SUBJECT KNOWLEDGE	В	Can identify relationship of basic facts and state general principles about the subject. (PRINCIPLES)			
LEVELS	С	Can analyze facts and principles and draw conclusions about the subject. (ANALYSIS)			
	D	Can evaluate conditions and make proper decisions about the subject. (EVALUATION)			

### **EXPLANATIONS**

- \*\* A task knowledge scale value may be used alone or with a task performance scale value to define a level of knowledge for a specific task. (Examples: b and 1b)
- \*\*\* A subject knowledge scale value is used alone to define a level of knowledge for a subject not directly related to any specific task, or for a subject common to several tasks.
- This mark is used alone instead of a scale value to show that no proficiency training is provided in the course.
- x This mark is used alone in course columns to show that training is required but not given due to limitations in resources.

	,	OWLEDGE AL REFERENCES	3-Skill Level Course
1. CAREER FIELD INFORMATION			
AF Instructions	Technical Orders	Miscellaneous	
AFI 11-401		AFECD	
AFI 11-402		AFPD 10-1	
AFI 36-2101			
1.1. Duties and Pro	ogression Within 1A1XX	AFSC	A
2. AIRCREV	V TRAINING / SU	JPERVISION	
AF Instructions	Technical Orders	Miscellaneous	
AFI 11-202 V1			
AFI 11-202 V2			
AFI 36-2201			
2.1. Training Qual	ifications		-
2.2. Standardizatio	n/Evaluation Functions		-
3. PUBLICA	TIONS		
AF Instructions	Technical Orders	Miscellaneous	
AFI 11-201,V2/V3	T.O. 00-5-1		
AFI 11-215	T.O. 00-5-3		
AFI 33-360	T.O. 00-20-1		
3.1. AF Technical	Orders (T.O.s)		-
3.2. Publications			-
3.3. AFTO IMT 78			-
4. AIRCRAFT SYSTEMS/EQUIPMENT			
AF Instructions	Technical Orders	Miscellaneous	
	T.O. 00-25-172		
	T.O. 1 <u>X</u> - <u>XXX</u> -1		
4.1. Electrical			A
4.2. Hydraulic			A
4.3. Bleed Air			A
4.4. Air Conditioni			A
4.5. Pressurization			A
4.6. Communication	on		A
4.7. Fuel			A A
4.8. Engines			
4.9. Flight Instrum			A A
4.10. Flight Contro			A
4.11. Landing Gear	I		A
4.12. Brake 4.13. Auxiliary Power			A
4.14. Fire Detection			A
			A
4.15. Fire Extinguishing 4.16. Aircraft Sensors			A
4.17. Aircraft Defe			A
4.17. All Clark Dele			A
4.19. Aircraft Systems Integration			A
T.17. Allerali Syste	ms megranon		<u> </u>

	TASKS, KN AND TECHNICA	3-Skill Level Course	
1. CAREER FIELD INFORMATION			
AF Instructions	Technical Orders	Miscellaneous	
AFI 11-401		AFECD	
AFI 11-402		AFPD 10-1	
AFI 36-2101		ATID IU-I	
	gression Within 1A9XX	AFSC	A
	TRAINING / SU		
AF Instructions	<b>Technical Orders</b>	Miscellaneous	
AFI 11-202 V1			
AFI 11-202 V2			
AFI 36-2201			
2.1. Training Quali			-
	n/Evaluation Functions		-
3. PUBLICAT			
AF Instructions	Technical Orders	Miscellaneous	
AFI 11-202, V2/V3			
AFI 11-215	T.O. 00-5-3		
AFI 33-360	T.O. 00-20-1		
3.1. AF Technical	Orders (T.O.s)		-
3.2. Publications			-
3.3. AFTO IMT 78		THE TENTE	-
	T SYSTEMS/EQ		_
AF Instructions	Technical Orders	Miscellaneous	_
	T.O. 00-25-172		_
	T.O. 1 <u>X</u> - <u>XXX</u> -1		
4.1. Electrical			A
4.2. Hydraulic			A
4.3. Bleed Air			A
4.4. Air Conditioni	ng		A
4.5. Pressurization			A
4.6. Communicatio	n		A
4.7. Fuel			A
4.8. Engines			A
4.9. Flight Instruments			A
4.10. Flight Contro			A
4.11. Landing Gear			A
4.12. Brake			A
4.13. Auxiliary Power			A A
4.14. Fire Detection			A A
4.15. Fire Extinguishing			A A
4.16. Aircraft Sensors			A
4.17. Aircraft Defe			A A
<ul><li>4.18. Propeller Systems</li><li>4.19. Aircraft Systems Integration</li></ul>			
-			A
4.20. Rotor Systems			A

TASKS, KNOWLEDGE AND TECHNICAL REFERENCES			3-Skill Level Course	
4.21. Prop Rotor S	ystems	A		
4.22. Transmission			A	
5. AERODYN	NAMICS			
AF Instructions	Technical Orders	Miscellaneous		
	T.O. 1 <u>X-XXX</u> -1	AFH 11-203 V1		
		AFH 11-203 V2		
		FAA-H-8083-3A		
		FAA-H-8083-21		
		FAA-H-8083-25A		
5.1. Turbo-Prop/Tu	ırbo-Fan Propulsion		A	
5.2. Fixed Wing	•		A	
5.3. Rotary Wing			A	
5.4. Tiltrotor			A	
5.5. Atmosphere ar	nd Weather			
5.5.1. Basic Atmos	phere/Physics Principles		A	
5.5.2. Weather Rep			A	
6. AIRCRAFT PERFORMANCE				
Technical Orders	Technical Orders	Miscellaneous		
T.O. 1-1B-50	T.O. 1C-130-A / U / H / J-1	AFH 11-203 V1		
	T.O. 1 <u>X-XXX</u> -1	AFH 11-203 V2		
	T.O. 1 <u>X</u> - <u>XXX</u> -1-1	MIL-STD-3013A		
6.1. Weight and Ba	alance			
6.1.1. Concepts			A	
6.1.2. Apply Formu	ulas		2b	
6.1.3. Weight and I	Balance Records		A	
6.1.4. Complete W	eight and Balance DD Fo	orm 365-4	2b	
6.1.5. Effects of W	eight and Balance		A	
6.2. Solve Perform	ance Math Problems		2b	
6.3. Fuel Managem	nent Principles		В	
6.4. Complete Fuel	Log Computations		2b	
6.5. TOLD				
6.5.1. Perform Basi	ic Chart Reading		2b	
6.5.2. Compute Vertical Lift Takeoff Data			2b	
6.5.3. Compute Ve	rtical Lift One Engine In	operative Data	2b	
	rtical Lift Landing Data		2b	
-	rtical Lift Climb Data		2b	
-	rtical Lift Cruise Data		2b	
•	rtical Lift Descent Data		2b	

A		IOWLEDGE AL REFERENCES	3-Skill Level Course
	INSPECTIONS		
AF Instructions	Technical Orders	Miscellaneous	
THE INSTITUTIONS	T.O. 1-1-300	Miscentification	
	T.O. 00-20-1		
	T.O. 00-20-2		
	T.O. 1- <u>X-XXX</u> -1		
7.1. Functional Che	eck Flight		-
7.2. Acceptance Ch	eck Flight		-
7.3. Operational Ch	neck Flight		-
8. GENERAL	NAVIGATION		
AF Instructions	Technical Orders	Miscellaneous	
AFI 11-208(I)		AFMAN 11-217 V1	
AFI 11-218		AFMAN 11-217 V2	
AFI 11-230		AFMAN 11-217 V3	
	erpret Terminal and En-	route NAVAID Information	2b
8.2. Determine Posi	•		2b
8.3. Determine Lati			2b
8.4. Extract and Into NOTAMs / Airport	erpret General Navigati	on Information from FLIP / TCNs /	2b
8.5. Extract and Inte	erpret General Navigati	on Information from SID / En-route Charts	2b
8.6. Extract and Into	erpret General Navigati	on Information from STAR / IAP	2b
9. MISSION I	PLANNING ANI		
AF Instructions	Technical Orders	Miscellaneous	
AFI 11-2KC-10	T.O. 1 <u>X</u> - <u>XXX</u> -1		
AFI 11-202 V3	T.O. 1 <u>X-XXX</u> -1-1		
	Required for the Missio	n	2b
9.2. Perform Mission	on Planning		2b
10. AIRCRAI OPERATION		YSTEMS PRINCIPLES OF	
AF Instructions	Technical Orders	Miscellaneous	
Ar mstructions	TO 11W1-13-3-		
	132	AFMAN 91-201	
	TO 11W1-13-5-2	AFTTP 3-3.AC130	
	T.O. 1 <u>X-XXX</u> -1	AFTTP 3-3.HH-60	
	T.O. 1C-130(A)H- 1-43		
10.1. Ammunition		A	
10.2. M240 Machin	ne Gun	A	
10.3. GAU-18A, .50 Caliber Machine Gun			A
10.4. GAU-2C, 7.62	2MM Gun	A	
10.5. GAU-12, 25m		A	
10.6. M2A1, 40mm		A	
10.7. 105mm Gun		A	
10.8. 30mm Gun			A

A	,	NOWLEDGE AL REFERENCES	3-Skill Level Course
10.9. Trainable Gur		A	
11. ALTERNA OPERATION		N/EXTRACTION (AIE)	
AF Instructions	<b>Technical Orders</b>	Miscellaneous	
AFI 11-2 HH-60, V 3 CL-1	T.O. 00-25-245	AFTTP 3-3 HH-60G	
V 3 CL-1		AFTTP 3-3 H-1	
11.1. Principles of	Operation		A
11.2. System Comp			A
11.3. Inspection	<u> </u>		A
12. CARGO	HANDLING		
AF Instructions	Technical Orders	Miscellaneous	
AFI 13-210	T.O. 1 <u>C-XXX</u> -1	Miscentification	
	T.O. 1C-17A-1CL- 2-C17A		
	T.O. 1C-17A-1-4		
	T.O. 1 <u>C-XXX</u> -9		
12.1. Per Square Inc	ch (PSI) and Shoring R	equirements	A
12.2. Compute Per	Square Inch (PSI) and S	Shoring Requirements	2b
12.3. Cargo Loadin	g/Offloading Procedure	es	A
12.4. Cargo Loadin	g Aids		A
12.5. Concepts of R	Lestraint		A
12.6. Compute Rest	traint Criteria		2b
12.7. Secure Cargo			2b
12.8. Cargo Inspect	ion Procedures		A
12.9. Inspect Cargo			2b
12.10. Cargo Docui			A
12.11. Special Hand	dling Procedures		A
12.12. Safety Requi			A
	ng/Offloading of Pallet		2b
	ng/Offloading of Self-I	Propelled Vehicle	2b
12.15. Principles of			A
13. AIR TRA MATERIALS		N OF HAZARDOUS	
AF Instructions	Technical Orders	Miscellaneous	
	T.O. 1 <u>X</u> - <u>XXX</u> -1	AFMAN 24-204	
		AFMAN 91-201	
		AMCH 11-214	
13.1. Safety Procedures			A
13.2. Determine Su	itability and Segregatio	n/Compatibility of HAZMAT	2b

	TASKS, KN ND TECHNICA ER/TROOP RE	3-Skill Level Course	
AF Instructions	Technical Orders	Miscellaneous	
	T.O. 1 <u>X</u> - <u>XXX</u> -1	AMCI 24-101, V14	
		DOD Foreign Clearance Guide	
14.1. Passenger Han	dling Procedures	A	
14.2. Border Clearar	nce Procedures	A	
14.3. Complete Boro	der Clearance Forms	2b	